



NPDES Permitting and Hurricane Florence

Matt DuPont

Brunswick County Mosquito Control







Overview



- NC NPDES-What is it?
- Monitoring requirements for pesticide applicators
- What you need to do for permit
- PDMP
 - Importance
 - What to do during an emergency situation, Like Hurricane Florence
- Adverse Incident Reports







- This permit is available to Operators who discharge to Waters of the United States from the application of (1) biological pesticides or (2) chemical pesticides that leave a residue (collectively called *pesticides*), when the pesticide application is for one of the following pesticide use patterns:
- Mosquito and Other Flying Insect Pest Control—to control public health/nuisance and other flying insect pests that develop or are present during a portion of their life cycle in or above standing or flowing water. Public health/nuisance and other flying insect pests in this use category include mosquitoes and black flies.



Monitoring Requirements for Pesticide Applicators



- You must monitor the amount of pesticide applied to ensure that you are using the lowest amount to effectively control the pest, consistent with reducing the potential for development of pest resistance.
- You must also monitor your pesticide application activities to ensure you are performing regular maintenance activities and to ensure that your application equipment is in proper operating condition to reduce the potential for leaks, spills, or other unintended discharge of pesticides to waters of the U.S. Additionally, you must monitor your pesticide application activities to ensure that the application equipment is in proper operating condition by adhering to any relevant manufacturer's conditions and industry practices, and by calibrating, cleaning, and repairing equipment on a regular basis. You must conduct spot checks in the area to and around where pesticides are applied for possible and observable adverse incidents caused by application of pesticides, including but not limited to the unanticipated death or distress of non-target organisms and disruption of wildlife habitat, recreational or municipal water use. Visual assessments of the application site must be performed:
- a. During any post-application surveillance or efficacy check that you conduct, if surveillance or an efficacy check is conducted.
- b. During any pesticide application, when considerations for safety and feasibility allow.







- Notice of Intent submittal to DWQ
- Discharge Authorization date is no earlier than 10 days after DWQ posts on the internet receipt of your complete and accurate Notice Of Intent
- Pesticide Discharge Management Plan after April 1, 2012
- Additional recordkeeping
- \$100 annual fee



Table 1. Annual Treatment Area Thresholds 15.000 acres of treatment area Mosquitoes and Other Flying Insect (adulticide applications only) 1 Pests Aquade weed and Algae Control. - In Water 1000 acres of treatment area 200 linear miles of treatment area at - At Water's Edge: water's edge 2 Aquatic Nuisance Animal Control: - In Water 200 acres of treatment area 200 linear miles of treatment area at - At Water's Edge water's edge Forest Canopy Pest Control 10,000 acres Intrusive Vegetation Control linear miles 3 500

- Multiple applications to the same area are added together only for mosquito and other flying insect pest control
- Applications that occur at water's edge in a ditch or canal are counted only once when one or both sides are treated
- 3 Applications to both sides of a road are added together for the total miles

Discharge Authorization Date. Beginning January 31, 2012, you must be covered under an NPDES permit for discharges to waters of the state as a result of the application of a pesticide. Permittees are authorized to discharge under this permit consistent with Table 2 below.





Now What?



• If you treat 15,000 acres annually, you need an NC NPDES permit.

When Should You Apply for NC NPDES?



Category	Notice Of Intent (NOI) Submittal Deadline	Discharge Authorization Date
Applicators who know or should have reasonably known, prior to commencement of discharge, that they will exceed an annual treatment area threshold.	At least 10 days prior to commencement of discharge. (Requirement waived until January 31, 2012)	No earlier than 10 days after the Division posts on the Internet receipt of your complete and accurate NOI.
Applicators who do not know or would reasonably not know until after commencement of discharge, that they will exceed an annual treatment area threshold.	At least 10 days prior to exceeding an annual treatment area threshold. (Requirement waived until January 31, 2012)	Original authorization terminates when annual treatment area threshold is exceeded. Applicator is reauthorized no earlier than 10 days after the Division posts on the Internet receipt of your complete and accurate NOI.
Applicators commencing discharge in response to a declared pest emergency situation.	After January 31, 2012 no later than 30 days after commencement of discharge.	Immediately, for activities conducted in response to declared pest emergency situation.

Pesticide Discharge Management Plan. This Part applies to any applicator required to submit an NOI. Some sections of the Pesticide Discharge Management Plan (PDMP) will require input from the pesticide applicator.

If you are required to submit an NOI, you must prepare a PDMP for your pest management area. You must keep the plan up-to-date thereafter for the duration of coverage under this general permit, even if your discharges subsequently fall below the applicable NOI threshold. You must develop a PDMP consistent with the deadline outlined in Table 3 below.





PDMP



- If you are required to submit an NOI, you must prepare a PDMP for your pest management area.
- You must keep the plan up-to-date thereafter for the duration of coverage under this general permit, even if your discharges subsequently fall below the applicable NOI threshold
- A PDMP must be completed prior to submitting a Notice of Intent (NOI) for coverage under the general NPDES permit.



PDMP Template from DWQ



PESTICIDE-DISCHARGE-MANAGEMENT-PLAN-(PDMP)-TEMPLATE)

The information indicated herein represents the minimum requirements for a complete PDMP. Pleasenote: The use of this template, or snother version that provides the same elements of information, is acceptable in-meeting the PDMP submission requirements of the NPDES Pesticide General Pennit.

A-PDMP must be completed prior to submitting a Notice of Intent (NOI) for coverage under the general NPDES permit. ¶

Please refer to Part 5 of NCG560000 for the specific requirements related to a PDMP-for reviewing updating and modifying a PDMP, or incorporating by reference other documents in the PDMP. PDMP updates shall include revisions to information on actual pesticide applications after the application (dates of application, total amounts and rates of pesticide application) if they differ from the information-included in the original PDMP.

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A. Name of Operator Responsible Parties (see permit section 5.1.1 for details of responsible parties): ¶

B. Name and Title-of-Authorized-Person-signing-the-PDMP: ¶

C. Responsible Parties-Street address: 4

D. Responsible Parties-mailing address: ¶

E. Telephone number: ¶

T.-E-mail-address: 1

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G. Name of entity/organization performing application:

H. Address: → → City: → → State: → → - Zig: ¶

J. Name-of-certified-Applicator-performing the application: ¶

K. Certified Applicator Identification number: ¶

L. Certified Applicator telephone and E-mail: ¶

M. List the name, address, and role of any other individuals involved with the pesticide application, as ----indicated in Part 5 of the general NPDES permit. ¶

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5.1.2 * PEST-MANAGEMENT-AREA-DESCRIPTION: 1

In cases where the PDMP addresses multiple past management areas or treatment areas under a single NOI, each past management area or treatment area must be documented in the PDMP. Use additional sheets with all required information, as redectors y. 4

A. Target-Pest(s): ¶

B. Waterbodies present in pest management area.§

1) · Waterbody Type (Lake, Pond, Stream, wetland): ¶

2) Waterbody name (where known): ¶

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C. County: ¶
D. Towa: ¶
E. USGS Quad: ¶
F. Total-waterbody size (acres or linear miles): ¶
G. Location and total size-of-treatment area(s): ¶
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H. Delineate the following information on a map. The map can be hand drawn, or can be copied from a published outprice, it should be of adequate scale for all required information to be readily identifiable. If the pesticide discharge will occur in a large waterbody, i.e., one that || cannot be showneasily on a single map drawing with sufficient scale, then an area should be depicted to enable an adequate indication of the location of the discharge relative to the surrounding-

The water-body wherein the discharge will occur;

The location of the target pest-species; ¶

The treatment area(s), including location within-waterbody.

5.1.3 • SCHEDULES AND PROCEDURES 9

5.1.3.1+Control-Measures

A. Describe procedures and maintenance activities, done to prevent-spills.

B. Application Equipment: List and describe equipment to be used to apply the pesticide. Include the date of the last routine maintenance or servicing and the date last cultivated. Describe schedule and procedures for equipment maintenance.

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C. Pest Surveillance/Monitoring: Describe schedules and procedures of visual assessments for adverse incidents of the pest management area and treatment areas, including those conducted during any pesticide application, when considerations for safety allow, and during any post-application surveillance-or-efficacy-check that is conducted by the operator, or under the operator's supervision-or-direction.

D. Identification of the problem or impacts that the pest is causing. 4

E. Describe any additional control measures that are currently being used, or have been used in the past to minimize the discharge of pesticides.

5.1.3.2--Actions necessary to minimize Discharges

A. Spill response procedures, Including ¶

 Procedures for expeditiously stopping containing and cleaning up leaks, spills, and other releases. Employees who may cause, detect, or respond to a spill or leak must be trained in these procedures and have necessary response equipment available. One of these individuals should be a member of your PDMP team.

 Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies.

B. Adverse incident response procedures -- at a minimum you must have: ¶

1. Procedures for responding to any incident resulting from pesticide applications;

2. Procedures for notification of the incident, both internal to your agency/organization and external. Contact information for state/federal-permitting agency, nearest emergency-medical-facility, and nearest hazardous chemical responder must be in-locations that are readily accessible and available.

C. Pesticide Monitoring Procedures -- You-must document-procedures for monitoring consistent with the requirements in Part 4-including.

The person (or position) responsible for conducting monitoring!

In accordance with Penal Law §210.45, I certify under penalty of perjury that information on this plan is true to the best of my-knowledge and belief. ¶

Signature of Operator: ¶

¶ Title:4

Date: ¶

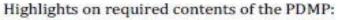
Date plan last updated/reviewed: ¶

Signatory has read and understand the permit and application 4

5.2. PESTICIDE DISCHARGE MANAGEMENT PLAN-MODIFICATIONS. -You must modify your PDMP whenever necessary to address any of the triggering conditions for corrective action or when a change in pest control activities significantly changes the type or quantity of pollutants dischanged. Changes to your PDMP must be made before the next pesticide application that results in a discharge, if practicable, or if not, as soon as possible thereafter. The revised PDMP must be signed and dated in accordance with Appendix B, Subsection B.11. Your must review your PDMP at a minimum once per calendar your and whenever necessary to update the pest problem identified and pest transagement strategies evaluated for your pest management area. §



Category	PDMP Deadline	
Permittees who know or should have reasonably known, prior to commencement of discharge, that they will exceed an annual treatment area threshold.	Prior to first pesticide application covered under this permit after April 1, 2012	
Permittees who do not know or would reasonably not know until after commencement of discharge, that they will exceed an annual treatment area threshold.	Prior to exceeding an annual treatment area threshold after April 1, 2012	
Permittees commencing discharge in response to a <u>declared pest emergency</u> <u>situation</u> that will cause the applicator to exceed an annual treatment area threshold.	No later than 90 days after responding to declared pest emergency situation after April 1, 2012	



- · Team Persons responsible for
 - Managing pests
 - Developing & revising PDMP
 - Developing, revising, & implementing corrective actions
 - Applying pesticides
- Pest Management Area Description
 - Pest problem
 - General location map
- Schedules & Procedures
 - Spill prevention & response
 - Pesticide application equipment maintenance
 - Pest surveillance pre-application, if needed
 - Adverse incident response
 - Pesticide monitoring
- Signature Requirements









- Adverse Incident (Definition)
 - An Adverse Incident means an incident that you have observed upon inspection or of which you otherwise become aware, in which:
 - There is evidence that a person or non-target organism has been exposed to a pesticide residue, and
 - The person or nor-target organism suffered a toxic or adverse effect







- The phrase "toxic or adverse effects" includes effects that occur within the waters of the state on non-target plants, fish or wildlife that are unusual or unexpected as a result of exposure to a pesticide residue.
- The phrase "toxic or adverse effects" also includes any adverse effects
 to humans or domesticated animals that occur either directly or
 indirectly from a discharge to the waters of the U.S. that are
 temporally and spatially related to a pesticide <u>residue</u>.



Adverse Incident Forms



Twenty-Four Hour Adverse Incident Notification Reporting Form Wilmington Regional Office Contact Information: Address: 127 Cardinal Drive Extension, Wilmington, NC 28405 Phone: 910-796-7215 Fax: 910-350-2004 ${\bf Emergency\ Response\ During\ the\ normal\ workday-Monday-Friday,\ 8\ a.m.\ through\ 5\ p.m.-call\ the\ regional\ office}$ closest to the environmental emergency. Do not leave a message. Make sure that you speak to an actual person so that you can share information that may be necessary to a fast response. Outside of normal business hours, call the emergency hot line at 1-800-858-0368 and an appropriate regional staff Required Reporting Information when reporting an Adverse Incident to NCDWQ Regional Office located at NPDES Permit Holder Information to Be Provided to NCDWQ during the initial 24 hr report Name of Permitted Person Reporting the Adverse Incident Phone Number of Permitted Person Reporting the Adverse Incident Address of Person Reporting the Adverse Incident_ Your Organizations NOI, NPDES tracking number Contact Persons Name and Phone Number if different from the person providing the 24 notice. Contact Persons Name Contact Persons Phone How you became aware of the Adverse Incident Name of Citizen Reporting Adverse Incident Address of Reported Adverse Incident Phone Number of Citizen Reporting Adverse Incident Description of Adverse NPDES General Permit NCG560000 11/7/2011

Thirty (30) Day Written Adverse Incident Notification Reporting







• In the event an employee observes a potential adverse event to the waters of North Carolina resulting from an adulticide operation during post adulticiding landing count inspections; the employee will put the Word "Yes" in the column called "Adverse Incident Yes/No" column in the Brunswick County Adulticide Worksheet. When a potential adverse incident is recorded, the Mosquito control supervisor will investigate and initiate any required documentation and/or notifications.







 All personnel licensed in category B will be trained in identifying and reporting adverse incidents annually. Training will be documented on the Adverse Incident Training Form.

- Review of Adverse Incident Definition in General Permit NCG560000
- Review 24 hour Adverse incident Reporting Criteria
- Review 30 Day Adverse Incident Reporting Criteria
- Adverse Incident to Threatened or Endangered Species or Critical Habitat Reporting Criteria
- Review of Notification of an incident, both internal and to your agency/organization and external. Review of the appropriate contact information for state /federal permitting agency, the nearest emergency medical facility and nearest hazardous chemical responder
- The Adverse Incident training was held on (Date) ______. The following employees attended the training:
- _____
- •
- .
- •





Adverse Incident







Review



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